Attorney's Docket No.:14580-044001

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

(Original) A ferroelectric memory array comprising:
 a plurality of memory pages each formed of a plurality of
 ferroelectric memory cells supplied by common word lines;

status memory cells connected to each of the plurality of memory pages, each status memory cell storing the status of the memory page to which it is connected; and

a plurality of sense amplifiers each receiving inputs from a pair of bit lines, each bit line of the pair receiving inputs from ferroelectric memory cells from a plurality of the memory pages, the sense amplifiers writing back data into the memory cells and status cells in reversed states following read operations.

- 2. (Original) The ferroelectric memory array of Claim 1, wherein during read operations pairs of bit lines are directly connected to the sense amplifier and during write back pairs of bit lines are intersected.
- 3. (Currently Amended) The ferroelectric memory of Claim

 1, further comprising A ferroelectric memory array comprising:

Attorney's Docket No.:14580-044001

a plurality of memory pages each formed of a plurality of ferroelectric memory cells supplied by common word lines;

memory pages, each status memory cell storing the status of the memory page to which it is connected;

a plurality of sense amplifiers each receiving inputs from a pair of bit lines, each bit line of the pair receiving inputs from ferroelectric memory cells from a plurality of the memory pages, the sense amplifiers writing back data into the memory cells and status cells in reversed states following read operations; and

a pair of imprint status bit lines connecting status memory cells together to provide input to an imprint status amplifier, the imprint status amplifier providing outputs to XOR gates of the sense amplifiers to provide logical data from the memory array which does not change when the physical data is reversed.

4. (Currently Amended) -The-ferroelectric memory of Claim-1, further comprising A ferroelectric memory array comprising:

a plurality of memory pages each formed of a plurality of ferroelectric memory cells supplied by common word lines;

Attorney's Docket No.:14580-044001

status memory cells connected to each of the plurality of memory pages, each status memory cell storing the status of the memory page to which it is connected;

a plurality of sense amplifiers each receiving inputs from a pair of bit lines, each bit line of the pair receiving inputs from ferroelectric memory cells from a plurality of the memory pages, the sense amplifiers writing back data into the memory cells and status cells in reversed states following read operations; and

wherein the sense amplifier is comprised of a pair of inverters.